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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/807,157	03/24/2004	Chie Kawamura	KAWA3008/EM	6470	
23364	7590 08/29/2006		EXAMINER		
BACON & THOMAS, PLLC			LAVILLA, MICHAEL E		
625 SLATERS LANE FOURTH FLOOR			ART UNIT	PAPER NUMBER	
ALEXANDRIA, VA 22314			1775		
			DATE MAILED: 08/29/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)				
		10/807,15	57	KAWAMURA ET AL.				
	Office Action Summary	Examiner		Art Unit				
		Michael La	a Villa	1775				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CFI SIX (6) MONTHS from the mailing date of this communication a period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by st eply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	DATE OF THE 1.136(a). In no even in the control of	IIS COMMUNICATION ont, however, may a reply be tin	N. nely filed the mailing date of this con D. (35 U.S.C. § 133).				
Status								
2a)	Responsive to communication(s) filed on 2. This action is FINAL . 2b) 17 Since this application is in condition for alloclosed in accordance with the practice under	his action is new	for formal matters, pro		merits is			
Dispositi	on of Claims							
5) ☐ 6) ☒ 7) ☐ 8) ☐ Applicati 9) ☐ 10) ☒	Claim(s) 1-15 is/are pending in the applicate 4a) Of the above claim(s) 1-5 and 15 is/are Claim(s) is/are allowed. Claim(s) 6-14 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and on Papers The specification is objected to by the Example drawing(s) filed on 24 March 2004 is/are Applicant may not request that any objection to Replacement drawing sheet(s) including the contribution of the oath or declaration is objected to by the	withdrawn from d/or election re niner. e: a) \(\sum \) accep the drawing(s) b rection is require	equirement. ted or b) objected to e held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFF				
	nder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
2) 🔲 Notice 3) 🔲 Inform	e (s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite	152)			

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DETAILED ACTION

Election/Restrictions

- Applicant's election without traverse of Group II, Claims 6-14, in the reply filed on
 June 2006 is acknowledged.
- 2. The requirement is still deemed proper and is therefore made FINAL.
- Claims 1-5 and 15 are withdrawn from further consideration pursuant to 37 CFR
 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 22 June 2006.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
- 5. The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- Claims 6-14 are rejected under 35 U.S.C. 112, second paragraph, as being
 indefinite for failing to particularly point out and distinctly claim the subject matter
 which applicant regards as the invention.
- 7. Regarding Claims 6, 7, 9, and 10, it is unclear whether the claimed "perovskite structure" is limited by the definition provided in the Specification in the paragraph bridging pages 7 and 8. It is unclear whether the definition requires ABO3 structure as described, wherein with A and B site substitution must be by elements listed in the paragraph and no other elements. It is unclear whether "e.g." at various occurrences in the paragraph in the Specification at pages 6 and 7 broadens the available elements for substitution. It is unclear what is meant by

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the phrase "ratio of area occupied by holes." A physical spatial hole is threedimensional, and so it is unclear what aspect of the hole is assessed to ascertain its area. Should the ratio be a volumetric ratio?

8. Regarding Claims 6 and 7, it is unclear what is meant by the reference to "claim1 or 2" as these claims are not pending.

Claim Rejections - 35 USC § 102

- 9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
- 10. A person shall be entitled to a patent unless -
- 11. (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 12. Claims 6, 9, and 12-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Miyoshi USPA 2001/0026865. Miyoshi teaches tetragonal ceramic powder of perovskite structure, wherein the claimed particle size and c/a ratio is achieved. In view of the small levels of OH groups in the powders and in view of the non-wet synthesis method, it would be expected that the claimed area ratio would be achieved. Applicant's discussion at page 2 of the Specification suggests that vacancies are avoided, and hence the claimed area ratio is achieved, when OH groups in the powders are avoided. Miyoshi teaches using these powders to make ceramic dielectrics of the claimed structure. See Miyoshi (paragraphs 9, 17-24, and 50-55).

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Conclusion

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael La Villa whose telephone number is (571) 272-1539. The examiner can normally be reached on Monday through Friday.

- 14. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on (571) 272-1540. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 15. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael La Villa 18 August 2006

AICHAEL E. LAVILLA PH.D
PRIMARY EXAMINER